



Compact
Fluorescent Trim

8" Pro-Optic™ Lensed
2 Horizontal Lamps
Non-IC

Recessed

Type _____
-68 -83
P8116

Finish

Catalog No.	Prismatic	Fresnel
P8116	-68	-83

Dimensions (Inches)

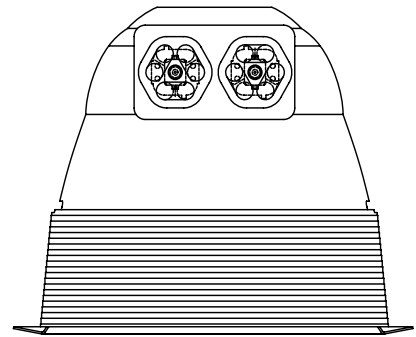
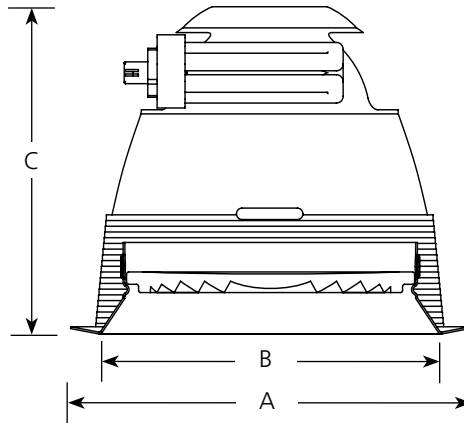
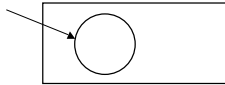
A	B	C
9-3/4	8	9-7/8

Maximum Ceiling Thickness: 1-1/8"

Ceiling Opening: 8-1/4" (see guide for retrofit)

P182H HOUSING COMPATIBILITY GUIDE		
ORDERING GUIDELINES	8 INCH OPENING RANGE	
	MIN	MAX
REQUIRES SD HOUSING OPTION	7-15/16	8-1/8
ALL STANDARD HOUSINGS	8-1/8	8-3/4
ONLY P8130 SERIES TRIMS AVAILABLE: 'WF' OPTION...	8-3/4	9-1/8

Dimensions shown are for the diameter of the frame flange at it's narrowest point



Lamp Wattage

Housing

New Construction

P8232-EB

Retrofit

P182H-EB

IC

N/A

Non-IC

2-32 or 42w Triple tube

Specifications:

Flange

- White painted regressed metal trim retains the lens with integral flange
- Attaches to reflector with two scissor springs

Reflector

- All aluminum construction
- One piece construction with integral flange
- No light leaks around trim flange
- Socket cup mounts to reflector for optimum performance and consistent lamp position
- Reflector retention accomplished by spring clips located in aperture of housing

Flange

- Fresnel (-83) or prismatic (-68) glass lenses
- Protects lamps from below ceiling

Labeling

- cCSAus listed for wet locations
- Non-IC rated

Progress Lighting
701 Millennium Blvd.
Greenville, South Carolina
29607



P8232-EB/P8116-68

8" RECESSED/DOWNLIGHT- Slot #1

Report No. 849-PRO

No. Lamps: 2 Type Lamp: 2-CF32DT/E/IN/827-SLYVAN Total Lumens: 4800

Fixture Efficiency: 38.1%

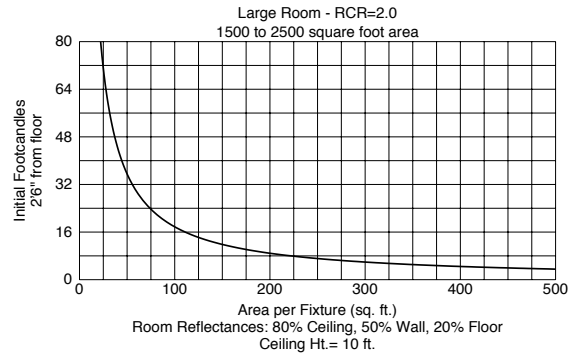
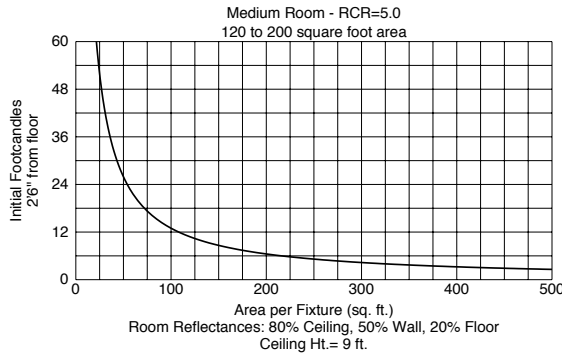
S/MH Ratio: 1.0 (0°) 0.9 (90°)

Single Fixture Data

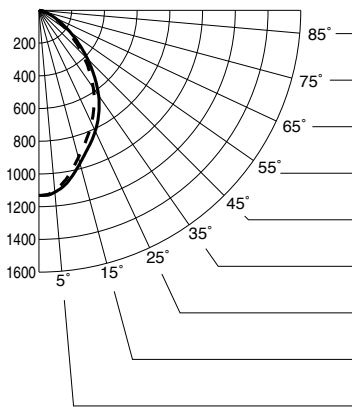
Ceiling Ht.(Ft.)	10% Values		Zero Degrees	50% Values	
	Beam Angle - 94°			Beam Angle - 52°	
	Ft.-C	Beam Dia.	Ft.-C	Ft.-C	Beam Dia.
8	3.7	12	37.4	18.7	5
10	2.0	16	20.1	10.1	7
12	1.3	20	12.5	6.3	9
14	0.9	25	8.6	4.3	11
16	0.6	29	6.2	3.1	13

Ft.-C (Footcandles) are initial and measured 2'-6" from floor

Quick Calculator Charts



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA	
	AT 0°	AT 90°
90	0	0
85	5	4
80	20	18
75	41	39
70	66	63
65	106	95
60	163	141
55	234	204
50	320	282
45	420	376
40	527	476
35	636	579
30	731	672
25	814	761
20	888	844
15	968	931
10	1056	1029
5	1115	1104
0	1132	1132

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20

RC	Effective Floor Cavity Reflectance 0.20																	
	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	45	45	45	45	44	44	44	44	42	42	42	41	41	41	39	39	39	38
1	42	41	40	38	41	40	39	38	38	38	37	37	36	36	36	35	35	34
2	39	37	35	33	38	36	34	32	35	33	32	34	32	31	32	31	30	30
3	36	33	30	28	36	32	30	28	31	29	28	30	29	27	29	28	27	26
4	34	30	27	25	33	29	27	25	29	26	24	28	26	24	27	25	24	23
5	31	27	24	22	31	27	24	22	26	24	22	25	23	22	25	23	21	21
6	29	25	22	20	29	25	22	20	24	21	19	23	21	19	23	21	19	18
7	27	23	20	18	27	23	20	18	22	19	18	21	19	18	21	19	17	17
8	26	21	18	16	25	21	18	16	20	18	16	20	18	16	19	17	16	15
9	24	19	17	15	24	19	17	15	19	16	15	18	16	15	18	16	15	14
10	23	18	15	14	22	18	15	14	18	15	14	17	15	13	17	15	13	13



P8232-EB/P8116-83

8" RECESSED/DOWNLIGHT- Slot #1

Report No. 851-PRO

No. Lamps: 2 Type Lamp: 2-CF32DT/E/IN/827-SLYVAN Total Lumens: 4800

Fixture Efficiency: 36.5%

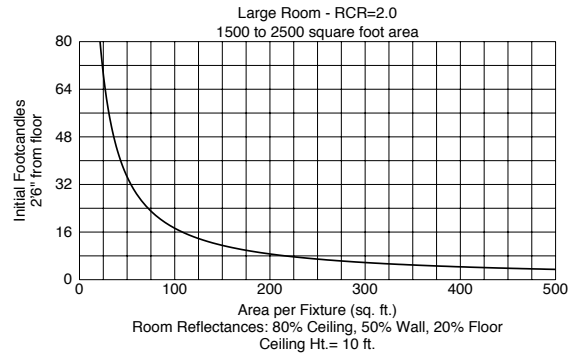
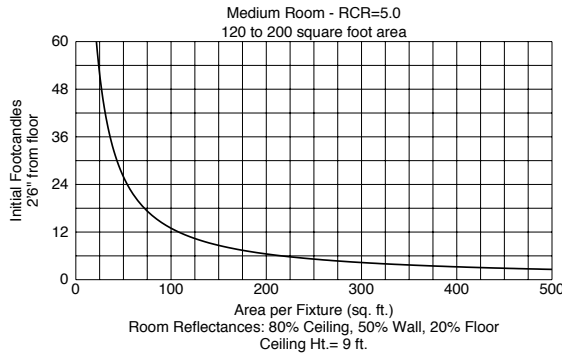
S/MH Ratio: 1.1 (0°) 0.9 (90°)

Single Fixture Data

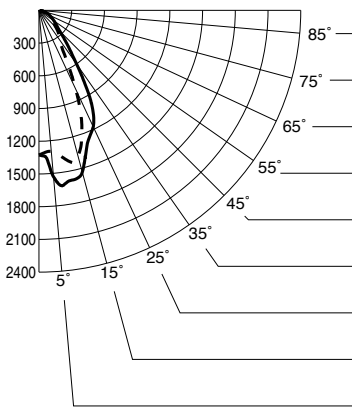
Ceiling Ht.(Ft.)	10% Values		Zero Degrees Ft.-C	50% Values	
	Beam Angle - 83°			Beam Angle - 53°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	4.4	10	43.8	21.9	5
10	2.4	13	23.6	11.8	7
12	1.5	17	14.7	7.3	9
14	1.0	20	10.0	5.0	11
16	0.7	24	7.3	3.6	13

Ft.-C (Footcandles) are initial and measured 2'-6" from floor

Quick Calculator Charts



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA	
	AT 0°	AT 90°
90	0	0
85	5	5
80	25	23
75	54	50
70	82	77
65	108	103
60	136	125
55	169	148
50	208	175
45	273	219
40	398	283
35	605	329
30	944	469
25	1178	798
20	1298	1151
15	1536	1382
10	1588	1385
5	1532	1297
0	1326	1326

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20

RC	Effective Floor Cavity Reflectance 0.20																	
	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	43	43	43	43	42	42	42	42	41	41	41	39	39	39	37	37	37	36
1	41	39	38	37	40	39	38	37	37	36	35	36	35	34	34	34	33	33
2	38	36	34	32	37	35	33	32	34	32	31	33	31	30	32	31	30	29
3	35	32	30	28	35	32	30	28	31	29	28	30	28	27	29	28	27	26
4	33	30	27	25	32	29	27	25	28	26	25	28	26	25	27	25	24	24
5	31	27	25	23	30	27	25	23	26	24	23	26	24	22	25	23	22	21
6	29	25	23	21	29	25	23	21	24	22	21	24	22	20	23	22	20	20
7	28	24	21	19	27	23	21	19	23	21	19	22	20	19	22	20	19	18
8	26	22	19	18	26	22	19	18	21	19	18	21	19	17	21	19	17	17
9	25	21	18	16	24	20	18	16	20	18	16	20	18	16	19	18	16	16
10	23	19	17	15	23	19	17	15	19	17	15	19	17	15	18	16	15	15